

### Weekly Influenza Summary:

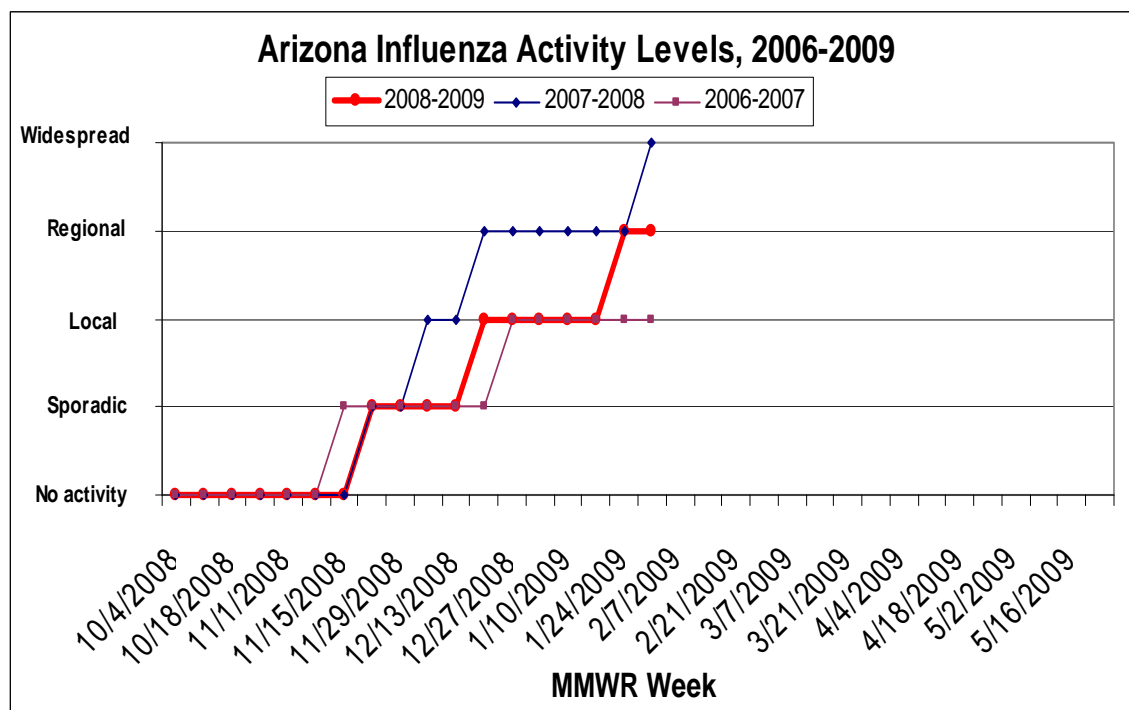
As of 2/3/2009, a total of 145 laboratory-confirmed cases of influenza were reported to ADHS for the 2008-09 season, and Arizona is reporting influenza activity to CDC for the week ending 1/31/2009. Cases have been reported from twelve counties (Apache, Cochise, Coconino, Gila, Graham, La Paz, Maricopa, Navajo, Pima, Pinal, Yavapai, and Yuma). The influenza-like-illness rate is higher than the state baseline for week 3. No pediatric influenza-associated deaths have been reported to ADHS.

Data in this report are provisional and may change as more reports are received.

National influenza surveillance data are available at the CDC's Influenza Surveillance site (<http://www.cdc.gov/flu/weekly/fluactivity.htm>).

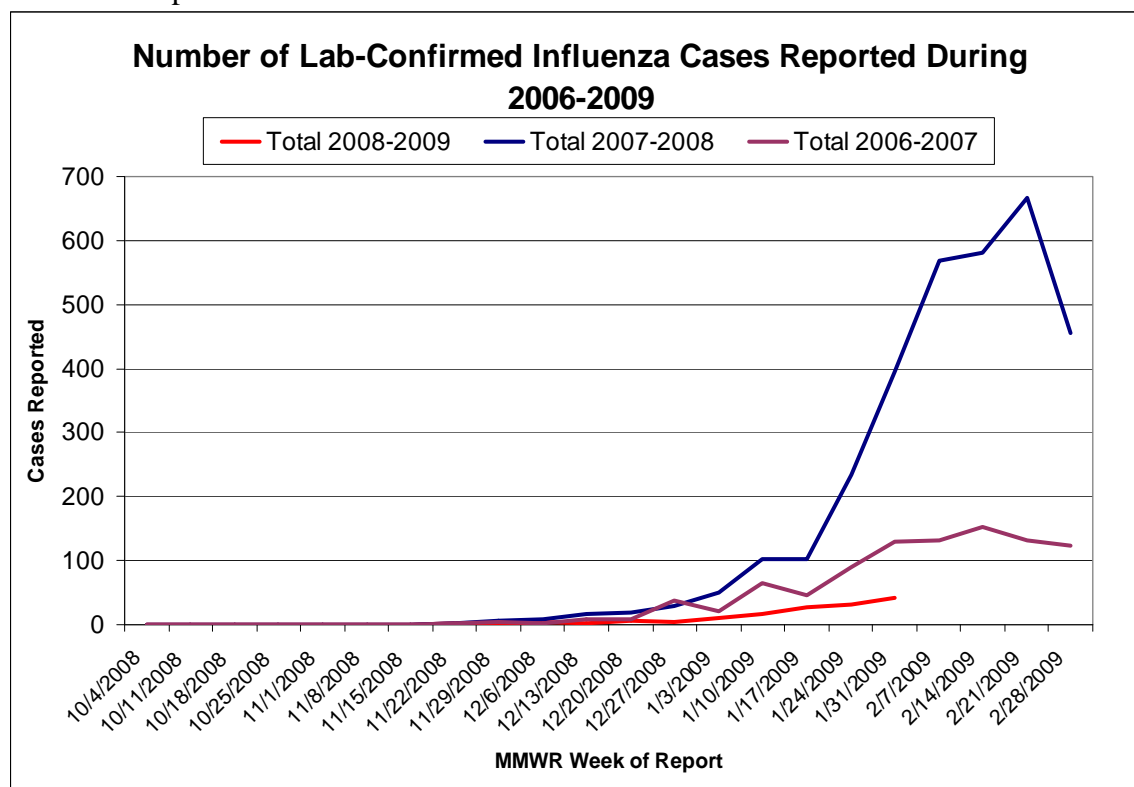
### Arizona Influenza Activity Levels:

The graph below shows the influenza activity levels reported to the CDC for this season only. For week 4, Arizona reported regional activity. Definitions of these reporting categories can be found at Definitions: <http://www.cdc.gov/flu/weekly/fluactivity.htm>.



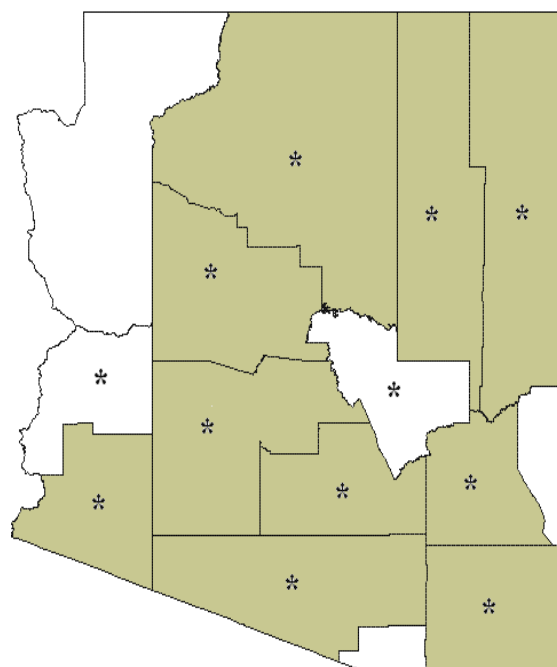
### Laboratory-Confirmed Influenza Activity by Season [2006-2009]:

Arizona laboratories report positive influenza tests to ADHS. The positive cases are counted by the date of report to ADHS.



### Laboratory-Confirmed Influenza Activity by County:

Arizona laboratories report positive influenza tests to ADHS. The positive cases are counted by the county of residence.



#### Key:

\* = Any activity reported this season

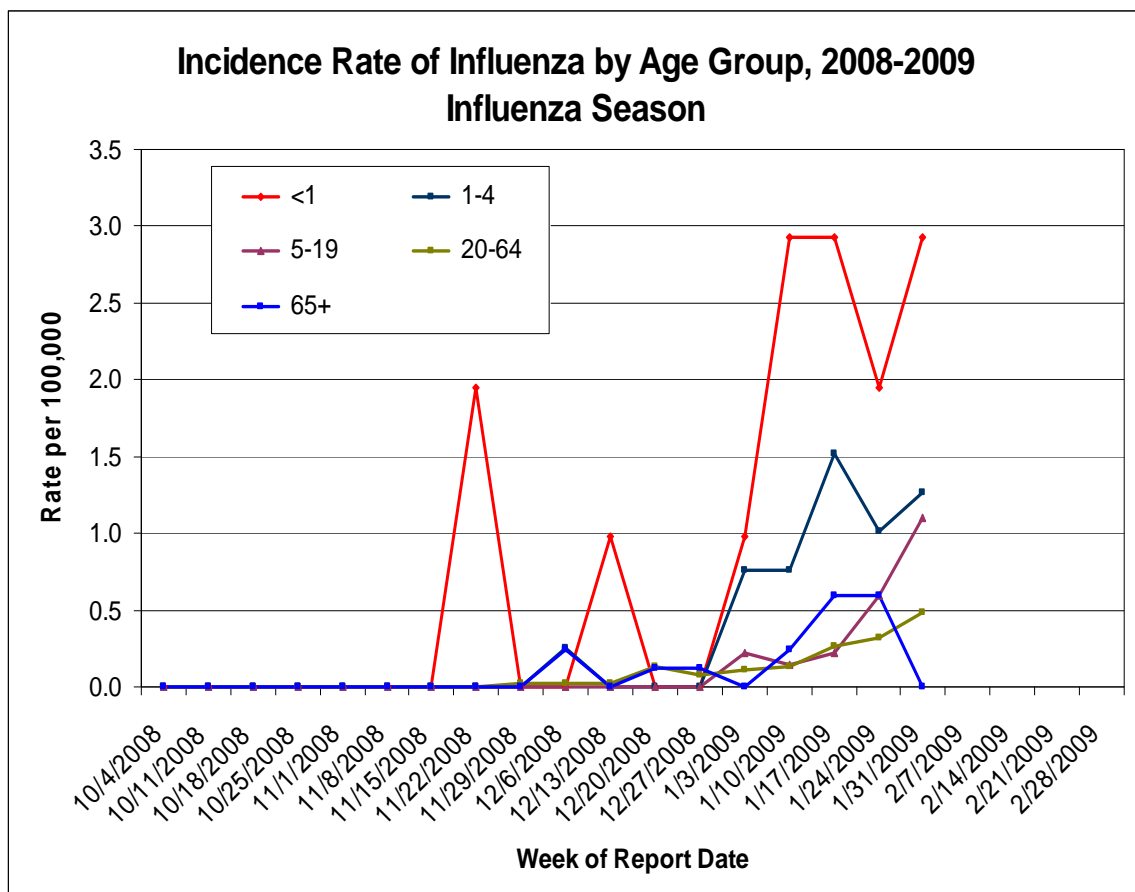
**Green** = Activity reported in the previous three weeks

**White** = No activity reported in the previous three weeks

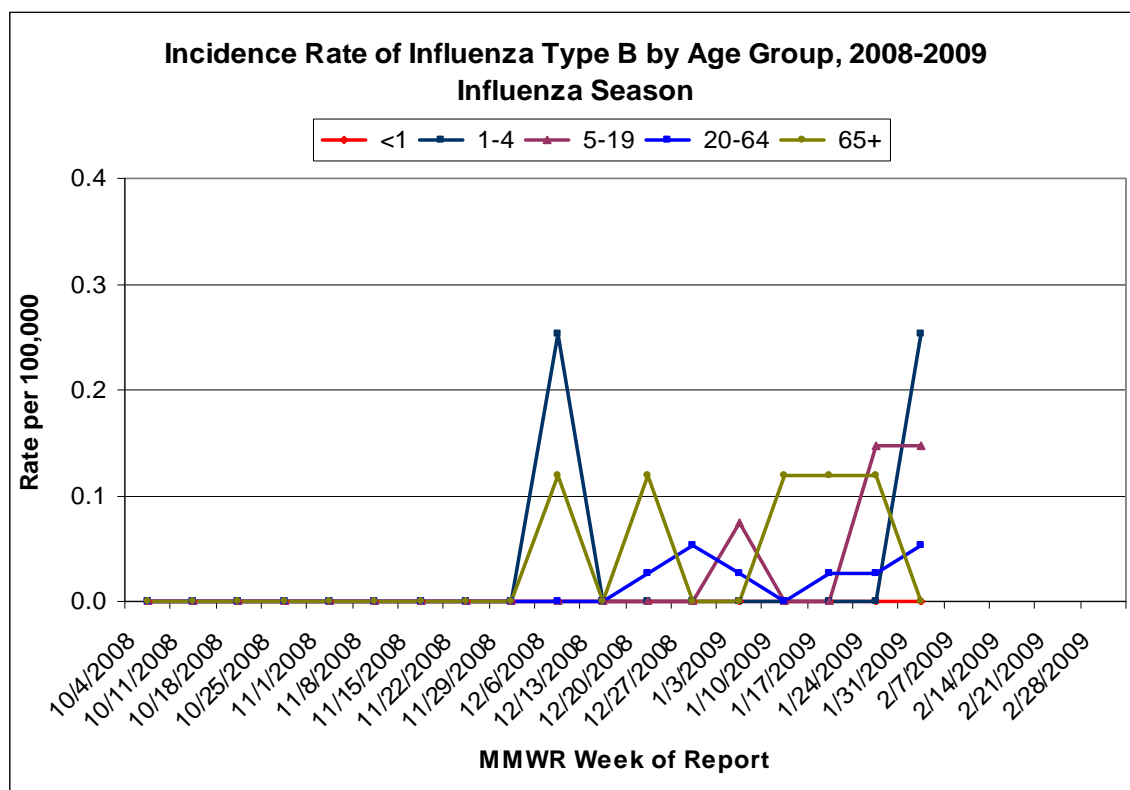
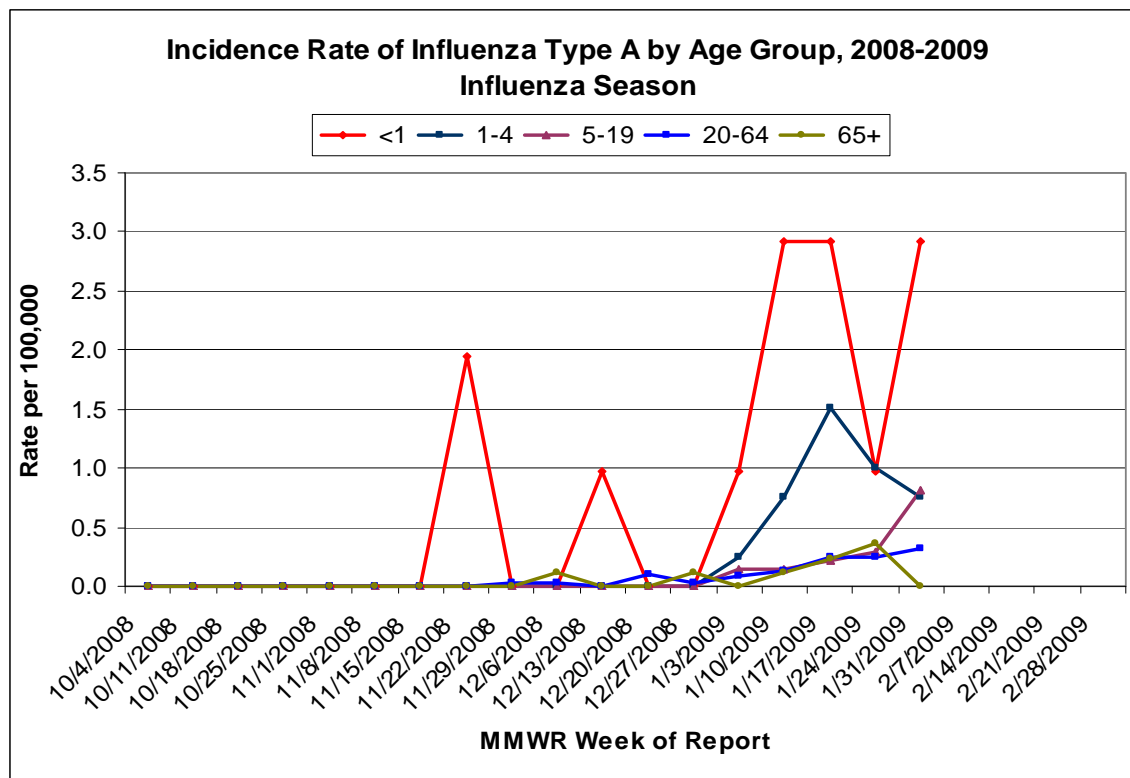
County	Number of Laboratory-Confirmed Cases		
	2008-2009 Season	Last Week	Last 3 Weeks
Apache	3	2	3
Cochise	9	3	7
Coconino	11	2	6
Gila	1	0	0
Graham	5	1	1
Greenlee	0	0	0
La Paz	1	0	0
Maricopa	80	21	55
Mohave	0	0	0
Navajo	3	1	2
Pima	26	8	20
Pinal	3	1	2
Santa Cruz	0	0	0
Yavapai	1	1	1
Yuma	1	0	1
Unknown	1	1	1
<b>Total</b>	145	41	99

### Laboratory-Confirmed Influenza Activity by Age Group:

The graph below shows the rate of lab-confirmed influenza by age for the season.



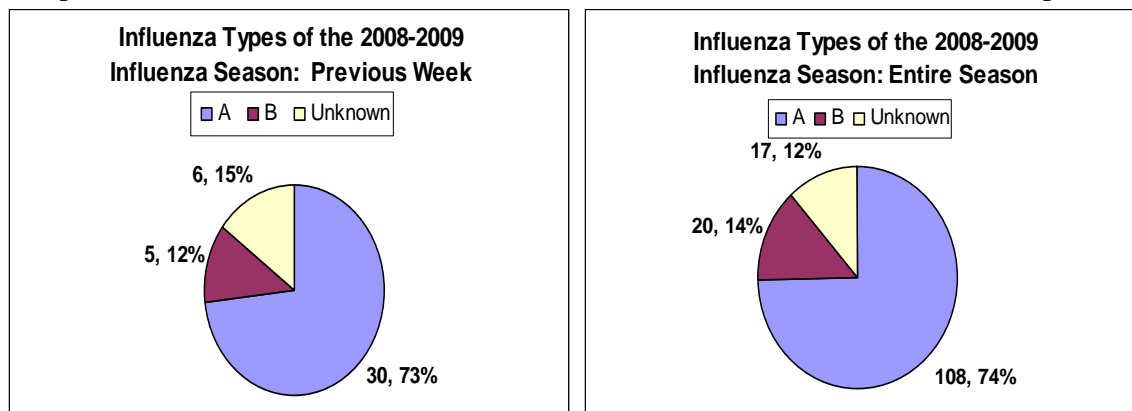
Prior influenza exposure, vaccination, or other factors may affect which age groups are affected by circulating influenza viruses. The graphs below show the rate of reported influenza, by viral type.



## Laboratory Surveillance:

Laboratories report positive influenza tests to ADHS. Data are then compiled based on influenza type from all positive laboratory tests.

The pie charts below show all lab-confirmed cases of influenza in the noted time periods.

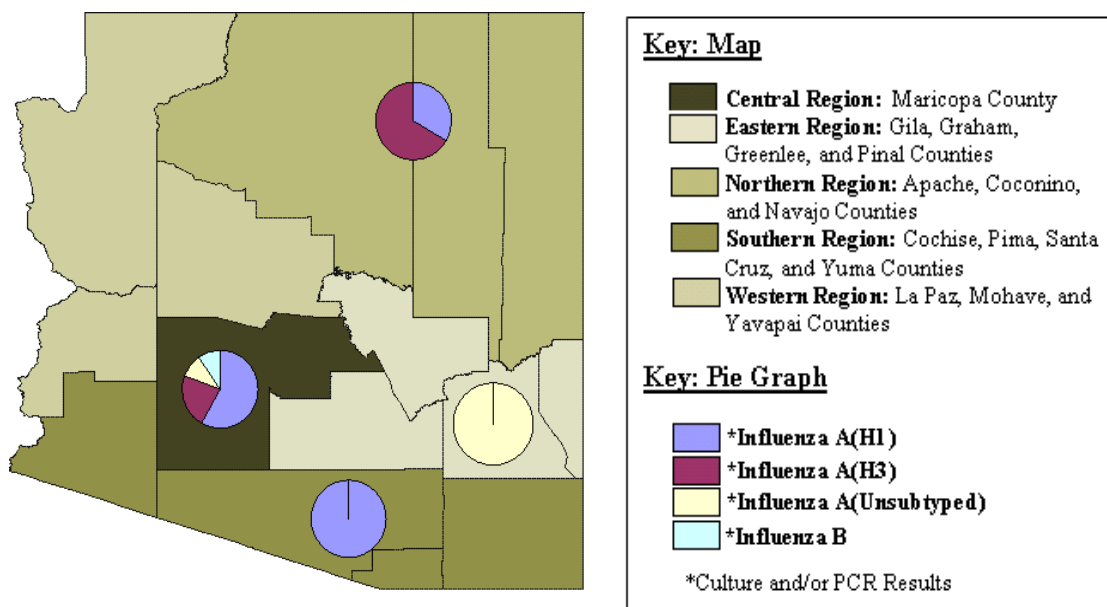


	Season (2008-2009)	Percent Total (2008-2009)	Season (2007-2008)	Percent Total (2007-2008)	Season (2006-2007)	Percent Total (2006-2007)
<b>Total*</b>	145	100%	5168	100%	1663	100%
<b>Influenza A*</b>	108	74%	2898	56%	1116	67%
A/H1 †	30	21%	184	4%	235	14%
A/H3 †	9	6%	234	5%	31	2%
A/Unsubtyped †	4	3%	257	5%	185	11%
<b>Influenza B*</b>	20	14%	1900	37%	355	21%
B/Malaysia †	0	0%	0	0%	38	2%
B/Shanghai †	0	0%	181	4%	5	1%
B/Unsubtyped †	3	2%	325	6%	120	7%
<b>Unknown*</b>	17	12%	370	7%	192	12%

\* Data for the bolded categories include all tests.

† Data for the subcategories include only culture and PCR tests conducted at the Arizona State Laboratory or other reporting laboratories.

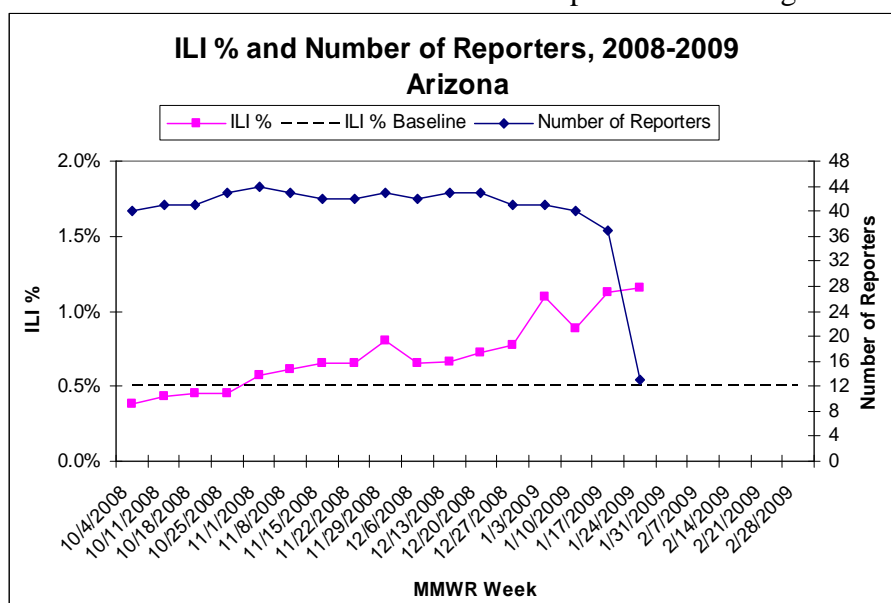
The results below show only culture and/or PCR results reported to ADHS from the Arizona State Laboratory or other laboratories across the state during the previous three weeks or from January 10<sup>th</sup> through the 31<sup>st</sup>.



Region	Influenza A(H1)	Influenza A(H3)	Influenza A(unsubtyped)	Influenza B
Central	18 (58.1%)	7 (22.6%)	3 (9.7%)	3 (9.7%)
Eastern	-	-	1 (100%)	-
Northern	1 (33.3%)	2 (66.7%)	-	-
Southern	2 (100%)	-	-	-
Western	-	-	-	-

### Influenza-Like Illness (ILI) Surveillance from Sentinel Providers

The proportion of patient visits to sentinel providers for ILI in the state was 1.2% for the week ending 1/24/2009 (week 3). This value is higher than the state baseline of 0.5%. As of 2/3/2009, 13 sentinel providers reported by the end of week 3. Due to the lower number of reporting providers, the noted ILI proportion may not be representative for the entire state of Arizona during week 2. ILI is defined as a fever of at least 100°F plus either a cough or a sore throat.

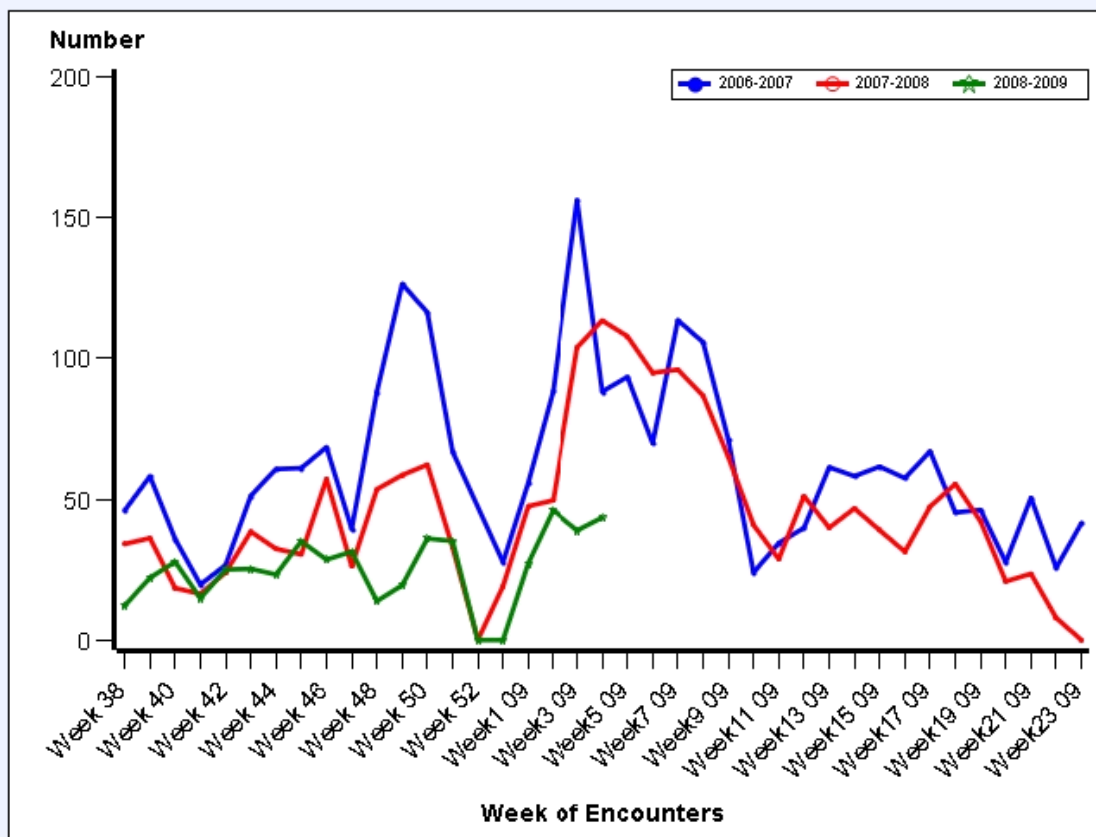


### Influenza-Like Illness (ILI) Surveillance from Participating Arizona Schools

ADHS and the Arizona School Nurse Consortium (AZSNC) developed and implemented a software program called Child Health Indicator Program (CHIP) to assist school nurses in electronic management of student health records. Currently, nurses in 331 Arizona schools use the software to collect information on student health conditions for 266 nursing diagnosis codes, including influenza-like illness (ILI), rash, and gastrointestinal illness (GI).

The graph presents the weekly trend of ILI syndromes reported among students during the school years of 2006-2007, 2007-2008, and 2008-2009. The number of school nurse encounters are not diagnosed cases of communicable diseases but are based on the nursing codes that school nurses enter to track student conditions. Also, the numbers in the graph are only from schools that used CHIP during the school year.

### Influenza-Like Illness Per School Enrollment in Arizona (per 100,000)



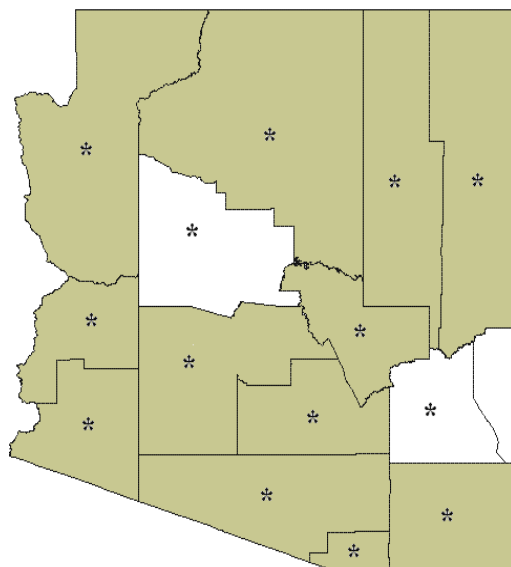
*Please see the following pages for the weekly RSV summary.*

**Weekly RSV Summary:**

As of 2/3/2009, 901 lab-confirmed cases were reported to ADHS during the 2008-2009 season.

**Lab-Confirmed RSV Cases Reported by County:**

Since October 2004, laboratories have been required to report positive RSV tests to ADHS.



**Key:**

\* = Any activity reported this season

**Green** = Activity reported in the previous three weeks

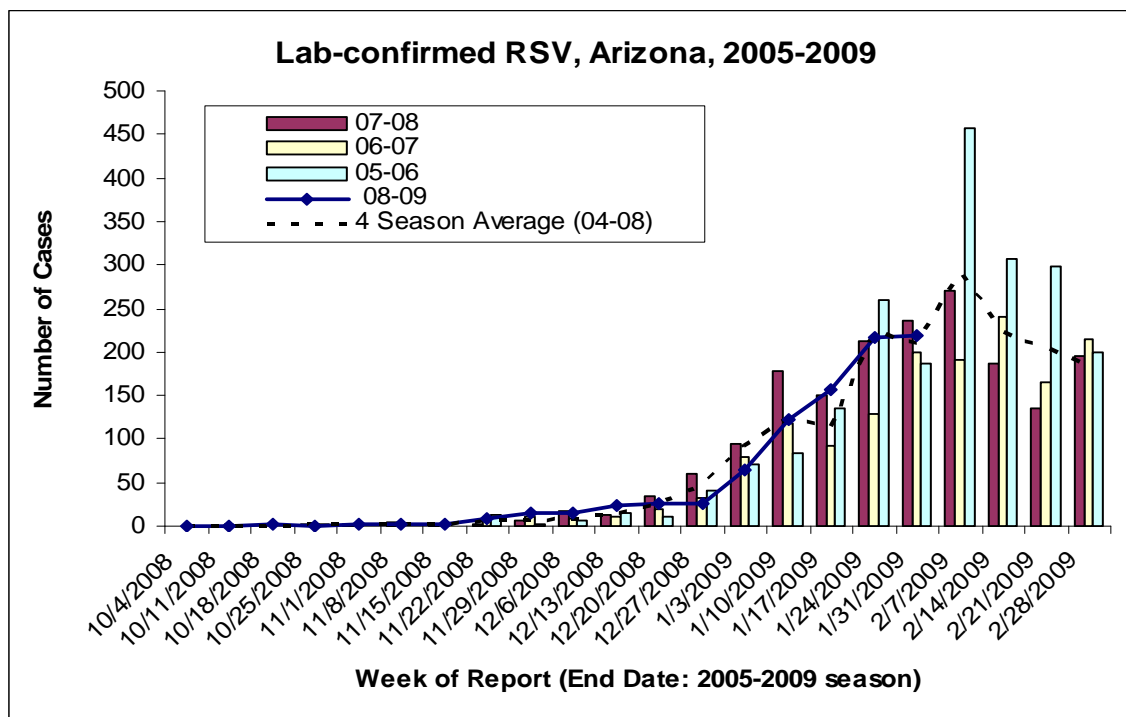
**White** = No activity reported in the previous three weeks

County	Number of Laboratory-Confirmed Cases		
	2008-2009 Season	Last Week	Last 3 Weeks
Apache	12	6	12
Cochise	20	5	15
Coconino	28	11	16
Gila	3	0	3
Graham	4	0	0
Greenlee	0	0	0
La Paz	5	0	1
Maricopa	631	165	435
Mohave	24	5	15
Navajo	2	0	1
Pima	136	19	65
Pinal	26	6	22
Santa Cruz	2	0	1
Yavapai	1	0	0
Yuma	6	0	5
Unknown	1	0	1
<b>Total</b>	901	217	592



### Laboratory Surveillance:

Laboratories report positive RSV tests to ADHS.



### Laboratory-Confirmed RSV Activity by Age and Gender:

Laboratories report positive RSV tests to ADHS.

